

## Product datasheet for **TA397499**

### H3C14 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ChIP, IF, IHC, WB
Recommended Dilution:	<b>WB:</b> 1:500 <b>IHC:</b> 1:500 <b>IF:</b> 1:500 <b>ChIP:</b> 2-5µg/million cells
Reactivity:	C. elegans, Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Histone H3 [Dimethyl Lys36] affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic dimethylated peptide surrounding Lysine 36 of human Histone H3.2.
Specificity:	Anti-Histone H3 [Dimethyl Lys36] was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody reacts with human Histone H3.2. A BLAST analysis was used to suggest cross-reactivity with Human, mouse, and C. elegans. Predicted to react with many species including rat, chicken, Xenopus, Drosophila, and plant based on 100% sequence homology. Cross-reactivity with Histone H3 from other sources has not been determined.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	0.73 mg/ml - lot specific
Conjugation:	Unconjugated
Storage:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Stability:	Expiration date is one (1) year from date of receipt.
Gene Name:	histone cluster 2, H3c
Database Link:	<a href="#">Entrez Gene 333932 Human</a> <a href="#">Entrez Gene 126961 Human</a> <a href="#">Q71DI3</a>



[View online »](#)

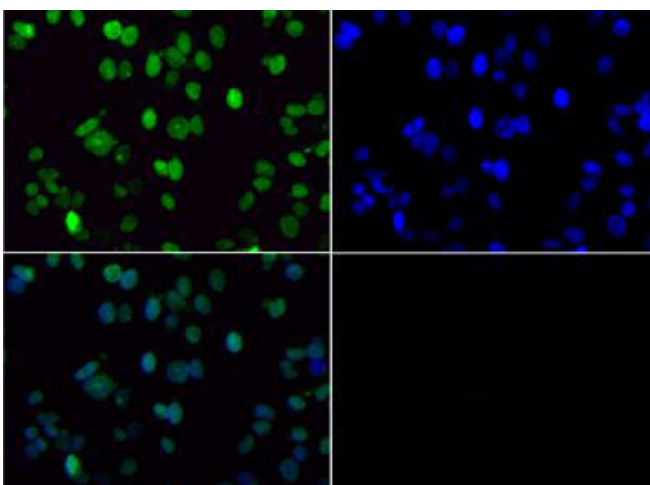
**Background:** In normal cellular conditions, H3K36Me2 represses spurious transcription, via recruitment of a deacetylase complex, Rpd3s. However, in cancer cells, overexpression of a histone demethylation enzyme (KDM8) can lead to demethylation of H3K36Me2, which then leads to inhibition of HDAC recruitment and thus erroneous transcriptional activation. Therefore, the variable role of H3K36Me2 as an epigenetic repressor or activator seems critical in cancer research. Anti-Histone H3 are ideal for researchers interested in Chromatin Modifiers, Chromatin Research, Histones and Modified Histones, and Epigenetics research.

**Synonyms:** rabbit anti-Histone H3 dimethyl Lys36 antibody, H3.3B, H3.3AH3F3H3F3B, H3 histone, family 3A, histone H3.3, MGC87783, MGC87782, H3K36me2

**Note:** Anti-Histone H3 [Dimethyl Lys36] antibody is tested in Western Blot, Chromatin Immunoprecipitation, Dot Blot, and Immunofluorescence. This antibody is useful for Immunocytochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~15.4 kDa corresponding to Histone H3 protein by Western Blotting in HeLa histone prep lysate or the appropriate cell lysate or extract. Epi-Plus™ antibody production in collaboration with Novus Biologicals.

**Protein Pathways:** Systemic lupus erythematosus

### Product images:



Immunofluorescence of Rabbit Anti-Histone H3 [Dimethyl Lys36] Antibody. Tissue: Neuro2a cells. Fixation: 0.5% PFA. Antigen retrieval: Not required. Primary antibody: Histone H3 [Dimethyl Lys36] antibody at a 1:100 dilution for 1 h at RT. Secondary antibody: FITC secondary antibody at 1:10,000 for 45 min at RT. Localization: Histone H3 [Dimethyl Lys36] is nuclear and chromosomal. Staining: Histone H3 [Dimethyl Lys36] is expressed in green, nuclei are counterstained with DAPI (blue).